This listing of the claims replaces any and all prior versions and listings of claims in the application:

## **LISTING OF THE CLAIMS**

- 1. (previously presented) A device for performing an experiment with a target moiety, comprising:
- (a) a removable substrate having
- (a1) a plurality of probe moieties each attached to a designated site on a surface thereof, and
- (a2) machine-readable information relating to the probe and/or target moieties;
- (b) a fluidic device for bringing the target moiety in contact with the plurality of probe moieties,
- (c) an apparatus for measuring characteristics of the interaction between the plurality of probe moieties and the target moiety;
- (d) a machine for
- (d1) reading some or all of the machine-readable information found on the substrate,
- (d2) commanding the device to apply a substance or condition that induces a response from the probe and target moieties, taking as an input some or all of the machine-readable information found on the substrate,
- (d3) receiving the characteristics of the interaction as measured by the apparatus for measuring, and
- (d4) taking as inputs some or all of the machine-readable information found on the substrate and the characteristics of the interaction, ascertaining some characteristic of the target moiety.
- 2. (previously presented) The device of claim 1, wherein the machine-readable information contains the identity of a customer.
- 3. (currently amended) The device of claim 1, wherein the device further comprises means for interoperating with a computer chip on the substrate capable of performing security functions wherein the machine-readable information is secured by technological means.

- 4. (previously presented) The device of claim 1, wherein the machine-readable information contains shipping and/or billing information.
- 5. (previously presented) The device of claim 1, wherein the machine-readable information contains the identity of at least one of the probe moieties.
- 6. (previously presented) The device of claim 1, wherein the machine-readable information comprises information relating to a process by which the plurality of probe moieties is attached to the substrate surface.
- 7. (previously presented) The device of claim 1, wherein the machine-readable information comprises information relating to experimental conditions associated with the use of the plurality of probe moieties.
- 8. (previously presented) The device of claim 1, wherein the machine-readable information comprises information relating to the results of an experiment associated with the use of the plurality of probe moieties.
- 9. (original) The device of claim 1, wherein the machine-readable information is digital.

Claim 10 (canceled).

- 11. (previously presented) The device of claim 103, wherein the machine-readable information is represented by no less than 1 megabyte of data.
- 12. (previously presented) The device of claim 103, wherein the machine-readable information is represented by about 1 to about 650 megabytes of data.
- 13. (currently amended) The device of claim 1, wherein the <u>machine-readable information is</u> in an optically detectable or readable form.

- 14. (previously presented) The device of claim 13, wherein the machine-readable information is detectable or readable by a fluorescence reader.
- 15. (previously presented) The device of claim 13, wherein the machine-readable information is detectable or readable by a phosphoimager.
- 16. (previously presented) The device of claim 13, wherein the machine-readable information is detectable or readable by a compact disk reader.
- 17. (previously presented) The device of claim 13, wherein the machine-readable information is detectable or readable by a digital versatile disk reader.
- 18. (previously presented) The device of claim 1, further comprising additional information on the substrate in a format that is readable by a bar code reader.
- 19. (original) The device of claim 18, wherein the bar code reader is a one-dimensional bar code reader.
- 20. (original) The device of claim 18, wherein the bar code reader is a two-dimensional bar code reader.
- 21. (previously presented) The device of claim 1, wherein the machine-readable information is in a magnetically detectable or readable form.
- 22. (previously presented) The device of claim 1, wherein the machine-readable information is in an electronically detectable or readable form.
- 23. (original) The device of claim 1, further comprising human readable information.
- 24. (previously presented) The device of claim 1, wherein the attached probe moieties are protected by a covering layer that covers the attached probe moieties.

- 25. (previously presented) The device of claim 24, wherein the protective layer encases the attached probe moieties.
- 26. (previously presented) The device of claim 24, wherein the protective covering layer is removable.
- 27. (previously presented) The device of claim 24, wherein the protective layer allows only selected matter or radiation to be transmitted therethrough.
- 28. (previously presented) The device of claim 27, wherein the selected matter or radiation is electromagnetic radiation.
- 29. (previously presented) The device of claim 28, wherein the electromagnetic radiation has a wavelength that causes fluorescence near an attached probe moiety.
- 30. (previously presented) The device of claim 1, wherein the plurality of attached probe moieties comprises an array of biomolecules.
- 31. (original) The device of claim 30, wherein the biomolecules are nucleotidic or peptidic.
- 32. (original) The device of claim 30, wherein the biomolecules are oligomeric or polymeric.
- 33. (currently amended) The device of claim 30, wherein the array comprises at least 5,000 <u>distinguishable</u> probe moieties per square centimeter of substrate surface.
- 34. (currently amended) The device of claim 33, wherein the array comprises at least 50,000 <u>distinguishable</u> probe moieties per square centimeter of substrate surface.
- 35. (currently amended) The device of claim 34, wherein the array comprises at least 200,000 <u>distinguishable</u> probe moieties per square centimeter of substrate surface.

- 36. (currently amended) The device of claim 35, wherein the array comprises at least 1,000,000 <u>distinguishable</u> probe moieties per square centimeters of substrate surface.
- 37 (original) The device of claim 1, wherein the substrate comprises a disk.
- 38. (original) The device of claim 1, wherein the substrate comprises a tape.
- 39. (original) The device of claim 1, wherein the substrate comprises a well plate.
- 40. (original) The device of claim 1, wherein the substrate comprises a slide.
- 41. (previously presented) The device of claim 1, wherein the substrate comprises a plurality of surfaces arranged in a three-dimensional structure to which the probe moieties are attached.
- 42. (previously presented) The device of claim 1, wherein the substrate further comprises a magnetic medium.
- 43. (previously presented) The device of claim 1, wherein the substrate further comprises an optical medium.
- 44. (previously presented) The device of claim 1, wherein the surface having the probe moieties attached thereto opposes a surface on which the information is located.

Claims 45-90 (canceled).

91. (previously presented) The device of claim 1, wherein the machine-readable information is contained in a discrete region of the substrate from the substrate surface having the plurality of probe moieties attached thereto.

Claim 92 (canceled).

- 93. (previously presented) The device of claim 91, wherein the discrete region is noncoplanar with respect to the substrate surface.
- 94. (previously presented) The device of claim 91, wherein the discrete region of the substrate is movable with respect to the substrate surface.
- 95. (previously presented) The device of claim 94, wherein the substrate comprises a cartridge.
- 96. (previously presented) The device of claim 1, wherein the machine-readable information and the attached probe moieties exhibit positional correspondence.
- 97. (previously presented) The device of claim 1, wherein the substrate has a radial mass distribution that is symmetric about an axis, perpendicular to the plane of the substrate surface.
- 98. (previously presented) The device of claim 97, wherein the substrate is in the form of a disk.
- 99. (previously presented) The device of claim 1, wherein the machine-readable information is contained in a computer microchip.
- 100. (previously presented) The device of claim 1, wherein the machine-readable information is stored in a medium capable of emitting radiation.
- 101. (previously presented) The device of claim 100, wherein the radiation is electromagnetic radiation.
- 102. (previously presented) The device of claim 100, wherein the medium is a fluorescent medium.
- 103. (previously presented) The device of claim 1, wherein the information is represented by no less than 1 kilobyte of data.

Claims 104-106 (canceled).

107. (previously presented) The device of claim 1, wherein the machine-readable information is in a radioactively detectable or readable form.

Claim 108 (canceled).

- 109. (withdrawn) A method for performing an experiment with a target moiety, comprising:
- (a) using a reading and detecting means to read the machine-readable information from the device of claim 1;
- (b) applying the target moiety from the source to the probe moieties based upon the information read by the reading and detecting means; and
- (c) using the reading and detecting means to detect for a response signal resulting from an interaction between the target moiety and a probe moiety.
- 110. (previously presented) The device of claim 30, wherein the array comprises about 5,000 probe moieties per square centimeter of substrate surface.